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(54) THERMOPLASTIC ELASTOMER COMPOSITION AND PNEUMATIC TIRE AND HOSE USING THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a thermoplastic elastomer composition capable of forming an elastomer component into a discontinuous phase and a thermoplastic resin component into a continuous phase within a high elastomer content range and thereby having an excellent softness and gas permeating resistance.

SOLUTION: This composition comprises (A) at least one kind of thermoplastic resin component having $\leq 25 \times 10^{-12} \text{ cc. cm/cm}^2 \text{ sec. cmHg}$ air permeability coefficient and (B) at least one kind of an elastomer component having $\leq 1.0 \times 10^{-10} \text{ cc. cm/cm}^2 \text{ sec. cmHg}$ air permeability coefficient with the proviso that a viscosity η_m of the component A and the viscosity η_d of the component B at the kneading temperature satisfy the formula $(-0.0518 \pm 0.90)/\phi_m < (\eta_d/\eta_m)$ (ΔS_P is a difference of solubility parameters between the elastomer component and the thermoplastic resin component; ϕ_m is a volume fraction of the thermoplastic resin component).

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